

A.S. SCIENCE OF FORENSICS

Department: Physical Sciences

Total credits: 60-64

COLLEGE REQUIREMENTS**CREDITS**

- Successful completion of CUNY Tests in Reading and Writing and the COMPASS Math Skills Test with passing examination scores or developmental courses may be required.
- One (1) Writing Intensive course in any discipline from any category below is required. Participation in a Learning Community that includes ENG 1200 or 2400 also satisfies this requirement.
- Two (2) Civic Engagement experiences—satisfied by CE-Certified or CE-Component courses or approved outside activity. See Graduation Requirements in this catalog.

CUNY CORE

Courses approved at the time of this catalog's publication for CUNY Flexible Core, Groups A-D, are listed in the *General Education: CUNY Pathways* section on page 43, and identified in the Course section, beginning on page 99.

REQUIRED CORE:

ENG 1200	3
ENG 2400	3
Mathematical & Quantitative Reasoning: MAT 1500√ or MAT 1600√	4
Life and Physical Sciences: BIO 1300 or BIO 1400 or CHM 1100 or CHM 1200 or PHY 1300 or PHY 1400	4

FLEXIBLE CORE: ◇

One course from each Group A – E plus an additional course from any Group. **No more than two courses in the same discipline.** 20

A. World Cultures and Global Issues

B. U.S. Experience In Its Diversity

C. Creative Expression

D. Individual & Society

E. Scientific World: MAT 1500√ or MAT 1600√ or BIO 1300 or BIO 1400 or CHM 1100 or CHM 1200 or PHY 1300 or PHY 1400 (if not taken for Required Core)

Plus another course selected from any Group E list above (if not taken for Required or Flexible Core)

DEGREE REQUIREMENTS §

If not taken for the CUNY Required Core or Flexible Core, the following are required:

Calculus I and II (MAT 1500√ and MAT 1600√)	8
<i>A cumulative grade point average of 2.5 or above is required in the following 34 credits of science:</i>	
General Biology I and II (BIO 1300 and BIO 1400)	8
General Chemistry I and II (CHM 1100 and CHM 1200)	8
Organic Chemistry I and II (CHM 3100 and CHM 3200)	10
Advanced General Physics I and II (PHY 1300 and PHY 1400)	8

ELECTIVES: 3 credits sufficient to meet the required total 60 credits for the degree. 8

√ COMPASS scores of 45 on Part I, 55 on Part II, 60 on Part III and 51 on Part V or pre-requisite courses required.

◇ This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.

§ Consultation with the Department Advisor is required.

STUDENT LEARNING OUTCOMES

Students will be able to understand the fundamental laws, theories, and ideas of Physics (and related Mathematics & Physical Sciences).

CHM 11 & CHM 12, PHY 11 or 13, PHY 12 & 14.

Students will be able to evaluate and express empirical evidence supporting the fundamental laws, theories, and ideas of Physics (and related Mathematics & Physical Sciences)

CHM 11 & CHM 12, PHY 11 or 13, PHY 12 & 14.

Students will be able to apply the fundamental laws, theories, and ideas of Physics (and related Mathematics & Physical Sciences) to analyze problems or questions.

CHM 11 & CHM 12, PHY 11 or 13, PHY 12 & 14.

Students will be able use the tools and methods of Physics (and related Mathematics & Physical Sciences) to gather, analyze, and interpret data.

CHM 11 & CHM 12, PHY 11 or 13, PHY 12 & 14.

Students will be able to express themselves effectively in written exams and laboratory reports using the terminology, notations, and symbols of Physics (and related Mathematics & Physical Sciences).

CHM 11 & CHM 12, PHY 11 or 13, PHY 12 & 14.

Students will be able to understand the basic principles of Physics (and related Mathematics & Physical Sciences) underlying technological developments, scientific discovery, and matters of public policy & concern.

CHM 11 & CHM 12, PHY 11 or 13, PHY 12 & 14.